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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,076	11/29/2000	Morris Hsi	V200-0038	9637

29074 7590 09/07/2004
VISTEON
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PO BOX 10395
CHICAGO, IL 60610

EXAMINER

ORTIZ RODRIGUEZ, CARLOS R

ART UNIT PAPER NUMBER

2125

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/726,076	HSI ET AL.	
	Examiner	Art Unit	
	Carlos Ortiz-Rodriguez	2125	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7, 8, 10-12 and 14-16 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 9, 13 and 17-19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/29/00-10/30/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because the abstract in an application filed should be limited to a paragraph within the range of 50 to 150 words. Correction is required. See MPEP § 608.01(b).

Claim Objections

2. Claims 1, 10 and 14 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
3. Claims 2-9, 11-13, and 15-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. Claims 1-4, 7-8, 10-12, and 14-16 are rejected under 35 U.S.C. 112, second paragraph.

Rejection under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps:

Regarding claim 1 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP

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§ 2172.01. The omitted steps are: Steps involved with the selection of the design for the power steering system and the steps for the selection of the predetermined characteristic of the power steering system. It is unclear how the selecting steps are realized.

Regarding claim 10 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: Steps involved with the selection of the design for the power steering system and the steps for the selection of the property of the power steering fluid and the property of the power steering pump. It is unclear how the selecting steps are realized.

Regarding claim 14 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: Steps involved with the selection of the design for the hydraulic energy assistance system and the steps for the selection of the predetermined characteristic of the hydraulic energy assistance system. It is unclear how the selecting step are realized.

Rejection under 35 U.S.C. 112, second paragraph, as being indefinite (ambiguous):

Furthermore, regarding claim 1, the term “selecting a design for a power steering system” (L5) renders the claim indefinite because it is ambiguous whether the “power steering system” is the same power steering system mentioned in the preamble of the claim.

The term “meet a predetermined noise criteria” (L29) renders the claim indefinite because it is ambiguous whether the “predetermined noise criteria” is the same predetermined noise criteria mentioned earlier in the claim.

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The term “using a power steering hose assembly design” (L30) renders the claim indefinite because it is ambiguous whether the “power steering hose assembly design” is the same power steering hose assembly design mentioned earlier in the claim.

The term “meet a predetermined criteria” (L31-32) renders the claim indefinite because it is ambiguous whether the “predetermined criteria” is the same predetermined noise criteria mentioned earlier in the claim.

Furthermore, regarding claim 10, the term “selecting a design for a power steering system” (L5) renders the claim indefinite because it is ambiguous whether the “power steering system” is the same power steering system mentioned in the preamble of the claim.

The term “at a predetermined operating condition” (L17-18) renders the claim indefinite because it is ambiguous whether the “predetermined operating condition” is the same predetermined operating condition mentioned earlier in the claim.

Furthermore, regarding claim 14, the term “for a hydraulic energy assistance system” (L4) renders the claim indefinite because it is ambiguous whether the “hydraulic energy assistance system” is the same power steering system mentioned in the preamble of the claim.

The term “meet a predetermined criteria” (L30-31) renders the claim indefinite because it is ambiguous whether the “predetermined criteria” is the same predetermined noise criteria mentioned earlier in the claim.

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Regarding claim 2 and 11, the term “a power steering system” and “a model” (L2-3 and 3-4, respectively) renders the claim indefinite because it is ambiguous whether it is referring to the system and model mentioned earlier in the base claim.

Regarding claim 3 and 4, the term “a predetermined characteristic” and “a predetermined operating condition” renders the claim indefinite because it is ambiguous whether it is referring to the characteristics and condition mentioned earlier in the base claim.

Regarding claim 8 and 12 the term “a predetermined criteria” renders the claim indefinite because it is ambiguous whether it is referring to the predetermined noise criteria mentioned in the base claim.

Regarding claim 7 the term “a noise transmission loss” renders the claim indefinite because it is ambiguous whether it is referring to the noise transmission loss mentioned in the base claim.

Regarding claim 15 the term “an acoustic analysis” renders the claim indefinite because it is ambiguous whether it is referring to the acoustic analysis mentioned in the base claim

Regarding claim 16 the term “an acoustic analysis” and “an acoustic response” renders the claim indefinite because it is ambiguous whether it is referring to the acoustic analysis and the acoustic response mentioned in the base claim

Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to method of power steering hose assembly design and analysis:

- a. U.S. Pat. No. 5,315,530 to Gerhardt et al., which discloses real-time control of complex fluid systems using generic fluid transfer model.
- b. U.S. Pat. No. 6,088,521 to Strumolo et al., which discloses method and system for providing a virtual wind tunnel.
- c. U.S. Pat. No. 6,116,766 to Maseeh et al., which discloses fabrication based computer aided design system using virtual fabrication techniques.
- d. U.S. Pat. No. 6,256,603 to Celniker, which discloses performing geoscience interpretation with simulated data.
- e. U.S. Pat. No. 6,535,211 to Hariya et al., which discloses numerical analysis mesh generating method and apparatus.

The following publications are cited to further show the state of the art with respect to method of power steering hose assembly design and analysis:

- f. Ned L. Brown, "Using a computer aided graphics system to help design and draft automotive components", Annual ACM IEEE Design Automation Conference, Pages 112-117, 1977.
- g. Phillips et al. "A knowledge system for automatic finite element mesh generation: AMEKS", ACM, Pages 668-678, 1988.

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Conclusion

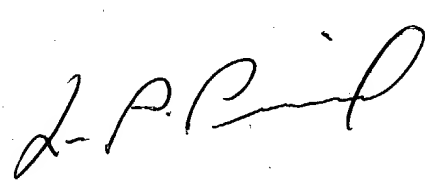
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Ortiz-Rodriguez whose telephone number is (703) 305-8009. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (703) 308-0538. The central official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Carlos Ortiz-Rodriguez
Patent Examiner
Art Unit 2125

cror

September 2, 2004



LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100